(Substitute Specification)



FUSION JOINING DEVICE FOR PLASTIC TUBES

FIELD OF THE INVENTION

The present invention relates to a fusion joining device for plastic tubes that heats the joint portion of plastic tubes for fusion joining the joint portion. Here, the term "plastic tubes" also refers to tubes which comprise a tube made of plastic, such as a plastic joint body and a plastic heat resistant cylinder.

BACKGROUND

With conventional fusion joining devices for plastic tubes, a heat fusion joinable plastic tube is loaded on the peripheral surface in the vicinity of the joint portion of plastic tubes, and the peripheral surface of this heat fusion joinable plastic tube is further tightly covered with a heat resistant cylinder, the heater being tightly contacted with the peripheral surface of this heat resistant cylinder such that the heat fusion joinable plastic tube is fusion joined to the peripheral surface in the vicinity of the joint portion by the conduction heat of the heater that is transferred through the heat resistant cylinder, in order to fusion join the plastic tubes to each other. The heater body is made of a heat conductive and insulating material, being formed in the shape of a semi-cylinder, and a heating element, such as a Nichrome wire, is disposed inside of the heater body. (Refer to Japanese Laid-Open Publication No. 8-174675, for example.)

However, with such a conventional fusion joining device for plastic tubes, which is based on the art as mentioned in Japanese Laid-Open Publication No. 8-174675, the disposal of a heating element, such as a Nichrome wire, in the heater body has increased the thickness of the heater, resulting in the entire device being a large-sized one, and the complicated configuration of the heater has been an obstacle to the reduction in cost.

Developed in consideration of such problems of the prior

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